

Intermediate Grain-Refining During
Recrystallization of Copper, by H. Dorchers,
A. Schaefer. 8 p.
GERMAN, per, Zeit. fuer Metallkunde, Vol 47,
No 6, 1956, pp 352-359.
SLA TR-66-10429

A. Schaefer

Sci-1944
Jul 66

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Schaefer, Cl., Matossi, F., and Wirtz, K.
THE INFRARED REFLECTION SPECTRUM OF
SILICATES. [1962] 36p. 30 refs.
Order from SLA \$3.60

63-10163

Trans. of Zeitschrift für Physik (Germany) 1934, v. 89,
p. 210-233.

DESCRIPTORS: *Infrared spectroscopy, *Silicates,
Crystal structure, Reflection, Frequency.

The data on reflection measurements in the infrared
spectra of silicates are presented. Two regularly occur-
ring reflection bands between 8 and 12 and 17 and 20
can be correlated with the polymerizations of the
SiO₄ groups. A "middle band" between 14 and 18...
which appears in particular in silicates can be attri-
buted to other coordination polyhedra (AlO₄, BeO₄).
The short-wave band between 8 and 12, which is at-
(Physics--Spectroscopy, TT, v. 9, no. 12) (over)

63-10163

I. Schaefer, C.
II. Matossi, F.
III. Wirtz, K.

63-10163

Office of Technical Services

Schaefer, E.
ELECTRONIC PERMANENT MEMORIES.

[1962] 28p. 51 refs.
Order from SLA \$2.60

62-20175

Trans. of Elektronische Rechenanlagen (West Germany)
1961, v. 3, no. 5, p. 197-205.

DESCRIPTORS: *Computer storage devices, *Memory
devices, Electrophotography, Storage tubes, Super-
conductivity, Inductance, Magnetic core storage,
Punched cards, Capacitors.

Computer memories often contain information which
rarely changes, but which must be read out frequently.
Such information can be stored more economically in
so-called read-only memories, or permanent stores,
than in the erasable working storage. This paper shows
how the same problem appears in several fields having
(Mathematics--Computing Devices, TT, v. 9, no. 12)
(over)

62-20175

I. Schaefer, E.

0040068

Office of Technical Services

Hot Water Rockets, by W. Michely, E. Schaefer.

GERMAN, papers, Report of International Meeting,
Freudenstadt, Germany, 6-8 Feb 1956, Sponsored
by Physical Research Institute of Jet Propulsion.

Navy Tr 1350/ONI A-666 & 666b

Scientific - Physics
Jul 56 CTS/dex

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The Human Memory as an Information Store, by
E. Schnafer.

GERMAN, per, Elektronische Rundschau, Vol XIV,
No 3, 1960, pp 79-84.

Navy Tr 3503/APL 804

Sci - Electron
Aug 63

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SEUTHE, A.
SCHAEFER, E.

Archiv Eisenhüttenwesen, vol. 10, 1 table, 2840 words;
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Use of Perchloric Acid in Steelworks Laboratories.

Brutcher Trans, Order No. 1334 \$3.55

A 10421

The Infra-Red-Spectrum of the U-Center, by
G. Schaefer.
FRENCH, per. Physics and Chemistry of Solids,
Vol 12, 1960, pp 233-244. 9229936
AEC ANL-tr-206

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G. Schaefer

Sci/Physics
Jun 66

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(SF-1857)

Organization Problems of the Building Industry,
by Gyorgy Schaefer, 10 pp.

HUNGARIAN, per, Magyar Epitoipar, Vol X, No 9,
1961, pp 406-411.

JPRS 11724

Econ - Hungary

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Jan 62

Contributions to the Subject of Peat
Improvement. 1: Low Temperature Carbonization
of Peat, by A.W. Schmidt. H. Schaefer.
GERMAN, per Brennst.-Chem. Vol. 23, No. 5.
1942, pp 49-55.
GFC

H SCHAEFER

Sci -
Aug 67

337-608

Chemical Transport Reactions and Their
Uses VII. Communications Concerning
Chemical Transport Reactions, by Harold
Schafer, 16 pp.

GERMAN, par, Angew Chemie, Vol. LXIII,
1961, pp 11-14.

AEC Tr-5258

Sci - Chem
Oct 62

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Schaefer, Harald and Breil, Günther.

THE TENDENCY FOR THE FORMATION OF GASE-
OUS TRICHLORIDES OF THE ELEMENTS CHRO-
MIUM, MANGANESE, IRON, COBALT, NICKEL,
INVESTIGATED WITH THE REACTION $\text{MeCl}_2 \text{ gas} +$
 $1/2 \text{ Cl}_2 + \text{MeCl}_3 \text{ gas}$ [1963] 11p. 20 refs.

Order from SLA \$1.60

63-16851

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1956, v. 283, p. 304-313.

DESCRIPTORS: *Chromium compounds, *Manganese
compounds, *Iron compounds, *Cobalt compounds,
*Nickel compounds, Gases, *Chlorides, Methanes,
Phase studies, Chemical equilibrium, Decomposition,
Enthalpy, Ionization potentials.

Entrainment measurements in the chlorine stream with
the dichlorides MnCl_2 , CoCl_2 and NiCl_2 as the solid
phase gave a very considerable formation of gaseous
trichloride with cobalt, but with manganese and with
nickel a formation existing at the limit of the detecta-
(Chemistry--Physical, TT, v. 10, no. 7) (over)

63-16851

1. Title: Methylene chloride
2. Title: Entrainment
- I. Schaefer, H.
- II. Breil, G.

A247593

Office of Technical Services

ON SENSORY IMPULSES IN CARDIAC NERVES, BY A. AMMAN,
H. SCHAEFER, 87 PP.

GERMAN, PER, PFLUGERS ARCH FUR DIE GESAMTE PHYS,
VOL COLVI, NO 6, 1943, PP 757-739.

NIH 5-12-62

SCI - MED

AUG 62

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Schaefer, H., Goesser, C., and Bayer, L.
CHEMISTRY OF THE ELEMENTS NIOBIUM AND
TANTALUM. IV. NIOBIUM TETRACHLORIDE AND
ITS DECOMPOSITION INTO THE TRICHLORIDE AND
THE PENTACHLORIDE. [1961] 25p. 17 refs.
Order from ES \$11.00

Trans. of Zeitschrift für Anorganische Chemie
(East Germany) 1951, v. 265, p. 258ff.

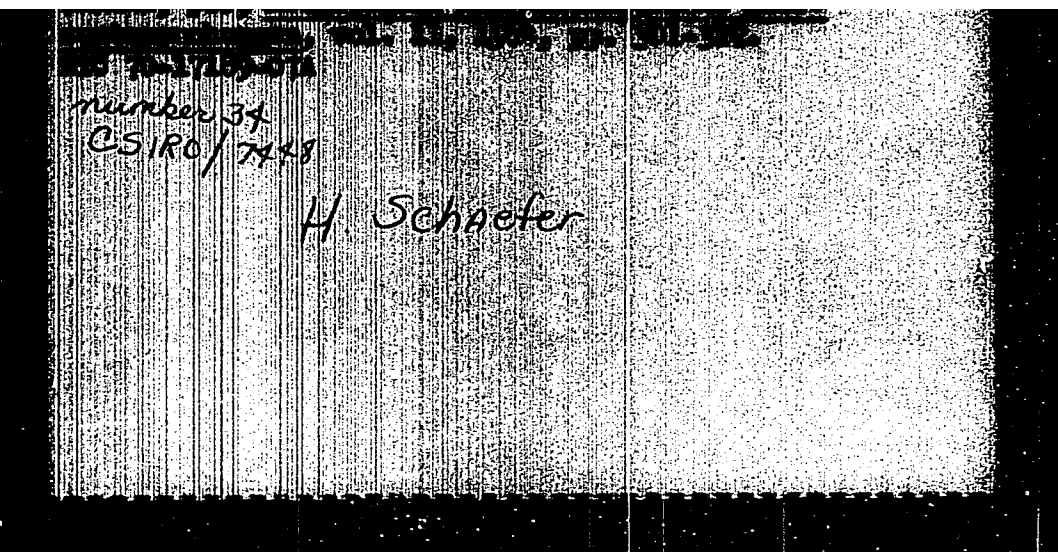
DESCRIPTORS: *Niobium, *Tantalum, *Niobium com-
pounds, *Chlorides, Decomposition.

(Chemistry--Inorganic, TT, v. 6, no. 7)

61-25132

- I. Schaefer, H.
- II. Goesser, C.
- III. Bayer, L.
- IV. Stux, Erica, Akron, Ohio
- V. Title: Niobium...

Office of Technical Services



Schaefer, H., Bayer, L., and Lehmann, H.
CHEMISTRY OF THE ELEMENTS NIOBIUM AND
TANTALUM. IX. EQUILIBRIUM PRESSURE OF NIO-
BIUM TETRACHLORIDE DECOMPOSITION. [1961]
16p. 10 refs.
Order from ES \$7.00

Trans. of Z[eitschrift für] Anorg[anische] Chem[ie]
(East Germany) 1952, v. 268, p. 268-278.

DESCRIPTORS: *Niobium, *Tantalum, *Niobium com-
pounds, *Chlorides, Decomposition.

(Chemistry--Inorganic, TT, v. 6, no. 6)

61-25133

I. Schaefer, H.
II. Bayer, L.
III. Lehmann, H.
IV. Title: Equilibrium...
V. Stux, Erica, Akron, Ohio

Office of Technical Services

The Monophasic Action Potential From the Apex
and Base of the Heart of ~~Warm~~ Blooded Animals
and the T-Wave Theory in the ECG, by H.
Scheffer, A. Pena, P. Scholmerich, 9 pp.

GERMAN, per, Pflugers Archiv, Vol CCXLVI, No 5,
1943, pp 728-732.

NIH 7-25-60

Sci - Med

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Columbium Trichloride, A Compound With Extensive Phase Breadth, by H. Schaefer, 4 pp.

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SLA Tr 57-1867

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Jun 58

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A New Stereoscopic Effect and Its Physiological
Interpretation, by Hans Schaefer, Fritz Ebner, 31 pp.

Full translation.

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Bad Nauheim.

FIAT Report No 1176

Scientific - Medicine

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(Also see FDD/X-839)

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Method For the Enrichment and Separation of the
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Schaefer, Christel Peitruck, 3 pp.

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IV b/12m, appl for 5 Feb 53, granted 2 Sep 53,
by W. C. Heraeus G.m.b.H., Hanau/M/

SLA 59-10753

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Measurements on the Latitude of Variation of the
Threshold Sensitivity of the Human Eye for Foveal Color
Vision in the Red Region of the Spectrum, by Hermann
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GERMAN, Kaiser-Wilhelm Institute for Biophysics, Frankfurt-
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New Avenues of Research in The Silicons Field,
by A. Lissner, H. G. Schaefer, 9 pp.

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SLA 60-16816

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Contributions to the Knowledge of Coal-Tar
Pitch, by Hans Georg Schaefer.

GERMAN, part, Freiburger Forschungshefte,
Reihe A 51, 1956, pp 35-65.

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Sci - Fuels

Mar 60

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The International Importance of
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pp 147-151.
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The Determination of the Shift and Splitting
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in Various Anhydrous Alkali Sulfates, by K.
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The Thermal Diffusion Effect in Gases, by K.
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pp 83-87.

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The Physicochemical Differences Between the Isotopes
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A 10-25

Development of the USSR Chemical Industry and the National
Economic Significance, by Kurt-Eduard Johnson, Helmut Weibrecht.
17 pp.
GERMANY, par. Kuhn, No 11, 1968, pp 28-29. (Forward, Table
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Feb 64

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The Effect of Prolonged Exposure to 3% CO₂ on Brain
Waves, by E. H. Schaefer, 13 pp.

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Sci/Med
Sep 60

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Sci/Aero

C

Comparison of the Stream Filament Theory From Gas Dynamics
With the Theory of Flows With Axial Symmetry, by M.
Schaefer, 5 pp. UNCLASSIFIED

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Flow Along a Wall, by M. Schaefer, 13 pp. UNCLASSIFIED

GERMAN, done by Technische Hochschule Dresden for
Peenemunde Archiv 44/9, Nov 5, 1942.

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The Appearance of a Compression Shock in the Neighborhood
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GERMAN, done by Technische Hochschule Dresden for
Peenemunde Archiv 44/12b, 1944.

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~~Get etc etc~~

Sci/Aero

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Outflow of a Jet of Compressed Air Into Moving Air, by
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GERMAN, done by Technische Hochschule Dresden for Peene-
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SCHAEFER, M.

Remarks on the Work "Two Boundary Value Problems in the Theory of Hyperbolic Partial Differential Equations of the Second Order With Applications ~~to the Second Order~~ to Supersonic Gas Flow, 5 pp.

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AEC P-TS-1203-1A

Brown Univ Tr A-5-13
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Connection Between Wall Curvature and Shock Wave Curvature
in Two-Dimensional Gas Flows, by W. Schaefer, 21 pp.
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GERMAN, done by Technische Hochschule Dresden for
Peenemunde Archive 44, 1940.

CIA 559838

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S.A. 57-1262

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Brown Univ Tr A9-T-9
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C

Formation of Envelopes of Mach Waves on a Tangentially
Struck Blade, by M. Schaefer, W. Tollmien, 29 pp.
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CIA 559840

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(FID 26856)

A Contribution to the Theory of Binaural Hearing, by
Otto Schaefer, Hebert Schlitt, 14 pp.

GERMAN, no per, Zeit fuer ~~NEUE~~ Angewandte Physik,
Vol VII, No 4, Berlin/Heidelberg, 1955, pp 165-168.

CIA/FID/U-7831

Sci - Physics, acoustics, physiological

32,592

Separation of Lipoid, Polysaccharid, and Protein
Antibodies From Tuberculous Sera by Means of the
Specific Inhibition Reaction, by W. Schaefer,
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Sci - Medicine
Jan 58

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The Building Block Construction Method at Radio
Works, Dresden, by Schaeffler, 4 pp.

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JPRS 10,000

Ref - Electron

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Vol. IV, No 8
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Show or Scientific Exhibition, by Schaeffer,
5 pp.

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USASIA; SC-132b/60

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Sep 61
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N-25/64

The Revolving and Tilting Short-Wave Directional
Antenna in Hauen, by Schaeffer, 5 pp
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REMA- A Private Firm in the German Democratic Republic,
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Oxidation of Leuco Compound to the Vat Dye,
by A. Schaeffer, 8 pp.

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Schaeffer, 29 pp.

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Aug 58

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Comparative Exposure Tests to Daylight and Artificial Light, by A. Schaeffer, 31 pp.

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GIA 3442

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An Epidemic of Bornholm's Disease in Northern
Amsterdam, Tuindorp Oostzaan, by Dr L. Faase
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Scientific - Medicine, disease

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Production of Sodium and Argon in Iron by High
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pp 346, 347.

AEC BWL 3495

Sci - Chem

SLA 57 10424

Jan 59

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Metal Adhesion With Epoxyde Resins, by W. Schaeffer,
H. Jahn, 24 pp. Plasticators for Rubber, by
S. Zielinski, 12 pp.

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Mar 1955, pp 53-58, 64-67. CIA 568441 and CIA 568442

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Sci - Chemistry
Apr 56

COMPARATIVE EVALUATION OF INDIGENOUS CARRIERS INJECT-
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HB 5467

SCI - ENGR
AND GR

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*Dept of Navy/Naval Ships 991

S. Schaefer

UNCLASSIFIED, THIS DOCUMENT MAY BE FURTHER
DISTRIBUTED BY ANY HOLDER ONLY WITH SPECIFIC PRIOR
APPROVAL OF THE COMMANDER, NAVAL SHIPS COMMAND,
WASHINGTON D. C. 20360
Sept 66

62-10731

Schaeppdryver, A. F. de and Preziosi, P.
CATECHOLAMINE CONTENT OF VARIOUS ORGANS
AND TISSUES OF MICE AND DOGS TREATED WITH
HYDROCHLOROTHIAZIDE (Contenuto in Catecolamine
di Diversi Organi e Tessuti di Topo e di Cane Trattati
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Order from SLA \$1.10

62-10731

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ale]. Boll[ettino] 1961, v. 37, 15 Mar, p. 189-192.

DESCRIPTORS: *Drugs, *Hypertension, *Epinephrine,
Adrenal glands, Spleen, Liver, Heart, *Diuretics,
*Thiazides, Tissues (Biology)

(Biological Sciences--Pharmacology, TT, v. 8, no. 7)

1. Title: Catecholamine
I. Schaeppdryver, A. F. de
II. Preziosi, P.

Office of Technical Services

Influence of Imipramine (Tofranil R) on Transmission in Peripheral Sympathetic Nerves, by M. Schaeppi.

GERMAN, per, Helvetica Physiologica et Pharmacologica Acta, No 18, 1960, pp 525-562.

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Sci-Biol & Med Sci
Mar 68

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in the Peripheral Sympathetic Nervous System
by Tofranil, by U. Schaeppi. 60

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Vol 18, 1960, pp 545-562.

NIH 1-25-65

P910291267

U. Schaeppi

Sci - B&M

Oct 67

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Comparison of the Construction and Characteristics
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K. Schaer

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Sci - Electronics

Jun 67

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SLA 57-2761

Sci
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Extruder, by A. J. Schaerer, 12 pp.

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SLA 57-2664

Sci
Aug 58

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No 11, 1956, pp 491-504.
HTC 69-15626-13B

Ch Scharrer

Sci-Hoch
Dec 69

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Experiments in Mechanical Ditch Consolidation
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HTC 69-15627-13B

Ch. Schauer

Sci-Mech
Dec 69

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Experiments in Mechanical Ditch Consolidation
in Binigen/Thun. Part III. by Ch. Schaefer.
OBERLAND, per, Strasse und Verkehr, Vol 43, No 1,
1957, pp 10-16.
HTC 69-15428-138

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Sci-Tech
Dec 69

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1957, pp 138-143.
HTC 69-15630-138

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Sci-Mech
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Experiments in Mechanical Ditch Consolidation
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NYC 69-15629-138

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Sci-Mech
Dec 69

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C. Part III, Vol 128, No 7, 17 August 1946, pp 81-84.

USA Corps of Engr, Waterways Exper Sta Tr 46-8

Sci - Engineering, hydraulics, naval
Econ - Transportation, river, water

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Sci - Biol & Med
Sep 63

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Preparation and structure of the beryllium nitride 65
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Chem. Ber., 2 Amer. Assoc. Chem. Vol 315, No 5/6,
1962, pp 304-312..
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A. Schafer

Sci/Chem
Apr 70

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On the Modifications of Boron. Experiments on the
Incorporation of Beryllium in the Boron Lattice, by
H. J. Echer, A. Schafer, 5 pp.

GERMAN, GER. / Zeitschrift für Anorganische und Allgemeine
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ADP UFR. No-740(L)

Sci. - Chem.
Mar 62

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Scientific - Engineering

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pp 679-683.

USA Corps of Engr, Waterways Exper Sta Tr 40-9

Sci - Engineering, hydraulics, naval
Econ - Transportation, river, water

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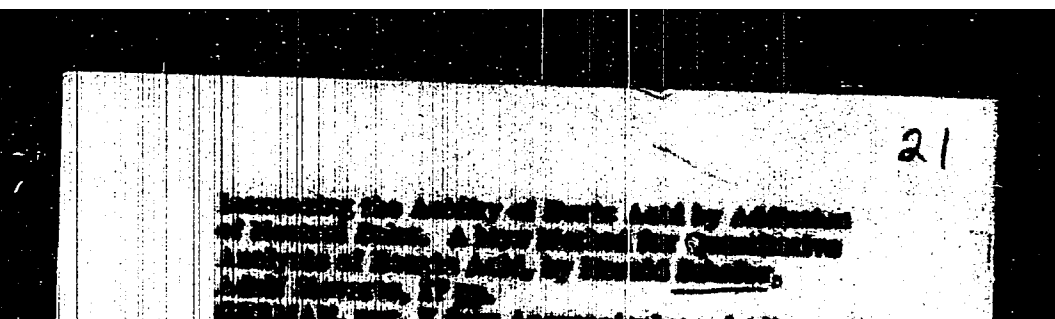
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H. Schaefer, G. Vornum.
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1964, pp 111-113. 92/2515
SIC 0101-11-011

H. Schaefer

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The Chemistry of the Platinum Metals. Part V. Reactions
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Analysis of Soviet Arms by Soviet Methods.
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The Enthalpy of Formation of Tantalum Chloride
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 $TaCl_4$, and $TaCl_3$, by Harold Schafer.

GERMAN, per, Z fuer Anorgan und Allgemeine
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Effect of Slag Formation on the Efficiency and
Desulphurization in the Basic Open Hearth Process,
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GERMAN, per, Stahl und Eisen, Vol LXXXIII, 1963,
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BISI 3430

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Lower Surface Enthalpies at High Temperatures,
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Chemistry Collection, 1964, pp 2412-24-25.
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Ref - Chem
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Gaseous Bismuth Oxides at High Temperatures, by
H. Schafer, W. Gerhardt, A. Tobben, 2 pp.

GERMAN, per, Angewandte Chemie, Vol LXXIII, No 1,
1961, p 27. 9095565

ABC NP Tr-811

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Studies on the $\text{Fe}_2\text{O}_3\text{-FeCl}_3\text{-H}_2\text{O-HCl}$ System
Rept. 1. The Action of Hydrogen Chloride ON
-Iron Oxide and the Evaluation and Interpretation
of the Reaction Equilibria, by Harald Schafer,
54pp
GERMAN, per, Zeitschrift für Anorg und Allgem
Chem. Vol 259, 1949, No 1/4, pp 53-74
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Harald Schafer

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Investigation in the U.S. Government
Classified Document, Part V, by H. Schuler, G. Vermon,
et al., 1979.
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pp 794-716. 922593
AND-100-22-1249

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I. [INFLUENCE OF HYDROGEN CHLORIDE ON α -IRON OXIDE]. [1962] [43]p. 25 refs.

Available on loan from SLA

62-18213

Trans. of Zeitschrift für Anorganische Chemie (East Germany) 1949, v. 259, p. 53-74.

DESCRIPTORS: *Hydrogen compounds, *Chlorides, *Iron compounds, *Oxides, Chemical reactions, Chemical equilibrium, Temperature, Dissociation.

Experimental studies were made of the equilibria which were reached following the action of HCl on $\alpha\text{-Fe}_2\text{O}_3$ between 300 and 1000°C. The methods of the equilibrium measurements are described and the accuracy of the results is discussed. The reaction equilibria $\text{Fe}_2\text{O}_3 + 6\text{HCl} \rightleftharpoons \text{Fe}_2\text{Cl}_6 \text{ gas} + 3\text{H}_2\text{O}$ (Chemistry--Physical, TT, v. 8, no. 9) (over)

62-18213

Schäfer, H.

Title: Influence...

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ELEMENTS NIOBIUM AND TANTALUM. XXL PRE-
PARATIVE INVESTIGATIONS WITH THE LOWER
NIOBIUM CHLORIDES. [1963] [38]p. (figs. omitted)
69 refs.

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63-16505

Trans. of Zeitschrift für Anorganische und Allgemeine
Chemie (East Germany) 1959, v. 300, no. 1/2, p. 1-32.
Another trans. is available from SLA \$3.60 as 63-14134,
26 Oct 60, 33p.

DESCRIPTORS: Tantalum, Niobium, *Niobium com-
pounds, *Chlorides, *Phase studies, Pyrolysis,
Reduction (Chemistry), Thermochemistry, Solubility,
Chemical analysis, Chemical properties, Synthesis
(Chemistry).

(Chemistry--Inorganic, TT, v. 10, no. 3)

63-16505

- I. Schäfer, H.
- II. Dohmann, K. -D.
- III. Title: Preparative ...

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Schäfer, Harald.
REMARKS ON FORMATION OF HIGHER SILICON
CHLORIDES IN A CHILLED TUBE (Bemerkungen zur
Entstehung Höhermolekularer Siliciumchloride im
Abschreckrohr). [1961] [c]p. 12 refs.
Order from SLA \$..10

61-20532

Trans. of Z[e]it[sch]rift f[ür] Anorg[anische] Chemie
(East Germany) 1953, v. 274, p. 265-270.

DESCRIPTORS: *Silicon compounds, *Chlorides,
Molecular weight, Synthesis, Thermodynamics,
Gases, *Cooling.

The mechanism of formation of higher-molecular-
weight silicon chlorides upon synthesis in a suddenly
cooled tube is discussed. It is made plausible that
chlorides $\text{Si}_n\text{Cl}_{2n-2}$ are formed because the thermo-
dynamically stable chief constituents of the gaseous
(Chemistry--Physical, TT, v. 7, no. 7) (over)

61-20532

I. Schäfer, H.

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61-20531

Schäfer, Harald and Nickl, Julius.
THE EQUILIBRIUM REACTION $\text{Si} + \text{SiCl}_4 = 2 \text{SiCl}_2$
AND THE THERMOCHEMICAL PROPERTIES OF
GASEOUS SILICON(II) CHLORIDE (Über das Reak-
tionsgleichgewicht $\text{Si} + \text{SiCl}_4 = 2 \text{SiCl}_2$ und die Thermo-
chemischen Eigenschaften des gasförmigen Sili-
cium(II)-chlorids). [1961] 18p. 11 refs.
Order from SLA \$1.60 61-20531

Trans. of Zeitschrift für Anorganische Chemie
(East Germany) 1953, v. 274 (no. 4/5) p. 250-264.
Another trans. is available from SLA mi\$2.40,
ph\$3.30 as 60-18007 [1960] 19p.

DESCRIPTORS: *Silicon, *Silicon compounds, *Chlo-
rides, Chemical reactions, *Chemical equilibrium
Thermodynamics, Chemical properties

For abstract see Technical Translations 4: 508, 1960.
(Chemistry--Physical, TT, v. 7, no. 4)

I. Schäfer, H.
II. Nickl, J.

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The Saturation Pressure Above Liquid Titanium
Tetachloride, by Harald Schafer, Frierich
Zeppernick.

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Contributions to the Chemistry of the Elements
Niobium and Tantalum: Part VI. The Separation
of the Elements Niobium and Tantalum by the
Reduction of Niobium Pentachloride, by
H. Schafer, C. Pietruck

GERMAN, per, Z Anorg Chem, Vol CCLX^{XVI}, 1951,
pp 151-160.

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Schafer, H. and Etzel, K.
**THE MIGRATION OF COPPER (I) OXIDE AND OF
COPPER IN TEMPERATURE GRADIENTS. Pt. 5. of
Chemical Transport Reactions. [1961] 10p.**
Order from ATS \$14.10 ATS-64N51G

Trans. of Zeitschrift für Anorg[anische] Chem[ie]
(East Germany) 1957, v. 291, p. 294-304.

DESCRIPTORS: Copper compounds, *Oxides,
Temperature, *Copper, Chemical reactions, *Trans-
port properties, Liquid metals.

(Chemistry--Physical, TT, v. 6, no. 4)

61-22905

I. Schafer, H.
II. Etzel, K.
III. Title: Chemical ...
IV. ATS-64N51G
V. Associated Technical
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Orange, N. J.

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Schafer, H., Jacob, H., and Etzel, K.
CHEMICAL TRANSPORT REACTIONS. II. THE AP-
PLICATION OF THE DECOMPOSITION EQUILIBRIUM
OF IRON (II) AND NICKEL (II) HALIDES TO THE
TRANSPORT OF THE METAL IN A TEMPERATURE
GRADIENT. [1961] 12p.
Order from ATS \$14.75

ATS-63N51G

Trans. of Zeitschrift für Anorg[anische] Chem[ie]
(East Germany) 1956, v. 286, p. 42-55.

DESCRIPTORS: Iron compounds, Nickel compounds,
*Halides, Decomposition, Iron, Nickel, Metals,
Thermodynamics, *Chemical equilibrium, Chemical
reactions

61-22640

- I. Title: Transport reactions
- I. Schafer, H.
- II. Jacob, H.
- III. Etzel, K.
- IV. ATS-63N51G
- V. Associated Technical
Services, Inc., East
Orange, N. J.

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The Saturation Pressure Above Liquid Titanium
Tetrachloride, by H. Schafer, F. Zeppernick, 11 pp.

GERMAN, per, Z. Anorg. u. Allgem. Chem, Vol CCLXXII,
1953, pp 274-278.

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METHOD OF SEPARATING THE ELEMENTS NIOBIUM
AND TANTALUM, AND FOUNDATIONS THEREOF.
Rept. 19 on Niobium and Tantalum. [1963] 27p. (figs.
tables omitted) 134 refs.
Order from SLA \$2.60

63-14204

Trans. of Angewandte Chemie (West Germany) 1959,
v. 71, no. 4, p. 153-160.

DESCRIPTORS: *Niobium, *Tantalum, Separation,
Oxidation, Hydrolysis, *Distillation, Chromatographic
analysis, Chlorides, Reduction (Chemistry), Acids,
Crystallization, Oxalates.

The methods of niobium-tantalum separation are
surveyed and discussed from a unified point of view.
By far the majority and the best of the known methods
are based on the difference in stability of lower oxida-
tion steps or middle hydrolysis steps. (Author)
(Engineering--Chemical, TT, v. 10, no. 5)

63-14204

I. Schiffer, H.

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Schäfer, Harald, Jacob, Herbert, and Etzel, Karl.
 CHEMICAL TRANSPORT REACTIONS. I. ON THE
 TRANSPORT OF PRECIPITATES IN TEMPERATURE
 GRADIENTS BY MEANS OF HETEROGENEOUS
 EQUILIBRIUMS. [1961] 26p. 22 refs.
 Order from SLA \$2.60

61-18252

Trans. of Zeit[schrift] f[ür] Anorg[anische] Chemie
 (East Germany) 1956, v. 286 [no. 1] p. 27-41.

DESCRIPTORS: *Chemical equilibrium, Convection,
 Thermal diffusion, *Electrostatic precipitation, Gases,
 Diffusion, Chemical reactions, Thermochemistry,
 Decomposition, *Transport properties.

If reversible reactions such as $\text{Si} + \text{SiCl}_4(\text{gaseous}) = 2 \text{SiCl}_2(\text{gaseous})$ and $\text{Fe}_2\text{O}_3 + 6 \text{HCl} = 2 \text{FeCl}_3(\text{gaseous}) + 3 \text{H}_2\text{O}$ take place in reaction tubes which lie in a temperature gradient (for example, 1000/800° C), the precipitate is taken up at the higher temperature and is
 (Chemistry--Inorganic, IT, v. 6, no. 10) (over)

61-18252

- I. Title: Transport reactions
- I. Schäfer, H.
- II. Jacob, H.
- III. Etzel, K.
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Coarse-Grained Inorganic Ion Exchangers With an
Inactive Matrix, by Karl-Heinz König, Horst Schafer, 29
et al, 7 pp.

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Molecular and Temperature Dependence of
Diffusion and Self-Diffusion in Inert
Gases, by K. Schafer et al. 7 pp.

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K. Schafer

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The Hindered Energy Exchange Between Solid
Materials and Adsorbed Gas Molecules for
Ortho- and Para-Hydrogen, by K. Schafer, S.
Stolz.

GERMAN, par, Z. Elektrochem., Vol 65, No 7/8,
1961, pp 623-628.
Chem Trans Sv 3063

K. Schafer

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